

0590  
0425

# 6



OIPE

## RAW SEQUENCE LISTING

DATE: 04/11/2002

PATENT APPLICATION: US/10/052,589

TIME: 13:46:12

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3 <110> APPLICANT: Perez, Dianne  
 4 Zuscik, Michael  
 6 <120> TITLE OF INVENTION: Model systems for neurodegenerative and cardiovascular disorders

8 &lt;130&gt; FILE REFERENCE: 26473/04200

10 &lt;140&gt; CURRENT APPLICATION NUMBER: US 10/052,589

11 &lt;141&gt; CURRENT FILING DATE: 2002-01-18

13 &lt;150&gt; PRIOR APPLICATION NUMBER: US 09/568,255

14 &lt;151&gt; PRIOR FILING DATE: 2000-05-10

16 &lt;160&gt; NUMBER OF SEQ ID NOS: 3

18 &lt;170&gt; SOFTWARE: PatentIn version 3.0

20 &lt;210&gt; SEQ ID NO: 1

21 &lt;211&gt; LENGTH: 2048

22 &lt;212&gt; TYPE: DNA

23 &lt;213&gt; ORGANISM: Mesocricetus sp.

25 &lt;400&gt; SEQUENCE: 1

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30	cactgcccc	gctggacgtt	accagggcca	tctctgtggg	cctgggtgctg	ggcgccctca	180
32	tcctctttgc	cattgtgggc	aacatcctgg	tcctcctgtc	agtggcctgc	aatcggcacc	240
34	tgcgagcgcc	caccaactac	ttcattgtca	acctggccat	tgctgacctg	ctgttgagtt	300
36	tcacagtcct	gcccttctcc	gctaccctag	aagtgtcttg	ctactgggtt	ctggggcgca	360
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42	tggtcaccgc	caggaaggcc	atcttggcac	tcctcagtgt	gtgggttttg	tccacgggtca	540
44	tctccatcgg	gcctctcctt	ggatggaaag	aaccagcgcc	caacgacgac	aagggaatcg	600
46	gagtcaccga	agaacccttc	tatgcctctc	tttccctcct	gggtcccttc	tacatcccac	660
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70	cactggagct	gtgcgcctac	cccgaatgga	aatccggggc	tctgctcagt	ctgccagagc	1380
72	ctccgggtcg	ccgcggtcgc	ctcgactctg	ggccctctt	cactttcaag	ctcttgggag	1440
74	agccggagag	cccgggcggg	cagcccgggt	tcaagagcaa	catgcctctg	gcacccgggc	1500
76	acttttaggg	tcccttttct	ttcccccaca	cacaccccag	gggggaggac	accattgtgg	1560
78	ggggcggggg	catggggggg	agtgtcagcc	ccgggtagac	acagggtcgc	aagggtacaa	1620
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86 tatctgtggg tacacgtgcg tgtgtctgtg cgggtcaacgt gtgggctgca tggatgtgtg 1860
88 ttgggggcct gcccaattgc gcgtgctggg gcagagcgag tgtgtgccct ggcaatgtca 1920
90 ggtttgttgt ttgtctcttg acttgtaacct ctcaagcccc tccttgttct ctggtcaatg 1980
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110 Ser Asn Ser Thr Leu Pro Gln Leu Asp Val Thr Arg Ala Ile Ser Val
111 35 40 45
113 Gly Leu Val Leu Gly Ala Phe Ile Leu Phe Ala Ile Val Gly Asn Ile
114 50 55 60
116 Leu Val Ile Leu Ser Val Ala Cys Asn Arg His Leu Arg Thr Pro Thr
117 65 70 75 80
119 Asn Tyr Phe Ile Val Asn Leu Ala Ile Ala Asp Leu Leu Leu Ser Phe
120 85 90 95
122 Thr Val Leu Pro Phe Ser Ala Thr Leu Glu Val Leu Gly Tyr Trp Val
123 100 105 110
125 Leu Gly Arg Ile Phe Cys Asp Ile Trp Ala Ala Val Asp Val Leu Cys
126 115 120 125
128 Cys Thr Ala Ser Ile Leu Ser Leu Cys Ala Ile Ser Ile Asp Arg Tyr
129 130 135 140
131 Ile Gly Val Arg Tyr Ser Leu Gln Tyr Pro Thr Leu Val Thr Arg Arg
132 145 150 155 160
134 Lys Ala Ile Leu Ala Leu Leu Ser Val Trp Val Leu Ser Thr Val Ile
135 165 170 175
137 Ser Ile Gly Pro Leu Leu Gly Trp Lys Glu Pro Ala Pro Asn Asp Asp
138 180 185 190
140 Lys Glu Cys Gly Val Thr Glu Glu Pro Phe Tyr Ala Leu Phe Ser Ser
141 195 200 205
143 Leu Gly Ser Phe Tyr Ile Pro Leu Ala Val Ile Leu Val Met Tyr Cys
144 210 215 220
146 Arg Val Tyr Ile Val Ala Lys Arg Thr Thr Lys Asn Leu Glu Ala Gly
147 225 230 235 240
149 Val Met Lys Glu Met Ser Asn Ser Lys Glu Leu Thr Leu Arg Ile His
150 245 250 255
152 Ser Lys Asn Phe His Glu Asp Thr Leu Ser Ser Thr Lys Ala Lys Gly
153 260 265 270
155 His Asn Pro Arg Ser Ser Ile Ala Val Lys Leu Phe Lys Phe Ser Arg
156 275 280 285
158 Glu Lys Lys Ala Ala Lys Thr Leu Gly Ile Val Val Gly Met Phe Ile

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159      290      295      300
161 Leu Cys Trp Leu Pro Phe Phe Ile Ala Leu Pro Leu Gly Ser Leu Phe
162 305      310      315      320
164 Ser Thr Leu Lys Pro Pro Asp Ala Val Phe Lys Val Val Phe Trp Leu
165      325      330      335
167 Gly Tyr Phe Asn Ser Cys Leu Asn Pro Ile Ile Tyr Pro Cys Ser Ser
168      340      345      350
170 Lys Glu Phe Lys Arg Ala Phe Met Arg Ile Leu Gly Cys Gln Cys Arg
171      355      360      365
173 Ser Gly Arg Arg Arg Arg Arg Arg Arg Arg Arg Leu Gly Ala Cys Ala Tyr
174      370      375      380
176 Thr Tyr Arg Pro Trp Thr Arg Gly Gly Ser Leu Glu Arg Ser Gln Ser
177 385      390      395      400
179 Arg Lys Asp Ser Leu Asp Asp Ser Gly Ser Cys Met Ser Gly Ser Gln
180      405      410      415
182 Arg Thr Leu Pro Ser Ala Ser Pro Ser Pro Gly Tyr Leu Gly Arg Gly
183      420      425      430
185 Ala Gln Pro Pro Leu Glu Leu Cys Ala Tyr Pro Glu Trp Lys Ser Gly
186      435      440      445
188 Ala Leu Leu Ser Leu Pro Glu Pro Pro Ser Arg Arg Gly Arg Leu Asp
189      450      455      460
191 Ser Gly Pro Leu Phe Thr Phe Lys Leu Leu Gly Glu Pro Glu Ser Pro
192 465      470      475      480
194 Gly Gly Gln Pro Gly Phe Lys Ser Asn Met Pro Leu Ala Pro Gly His
195      485      490      495

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197 Phe

200 &lt;210&gt; SEQ ID NO: 3

201 &lt;211&gt; LENGTH: 3450

202 &lt;212&gt; TYPE: DNA

203 &lt;213&gt; ORGANISM: Mus musculus

205 &lt;400&gt; SEQUENCE: 3

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210 tctctaaagg cagcttaggt aagatagttg aaatgagggc agggactgtt ttcaaagcta      180
212 tctgaatcat tgtttgtttg tttgtttgtt tgttatctca gagaaactcc ttagaattgt      240
214 atattttgtg caactggaga gcttgtgcca tttttaatag gagattaagg accttaaagc      300
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218 atcatgattt tggggccagc ctgggcta ataaagtctt aggccagcct aggcccaagt      420
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226 caggcaatga atgtaatact cacacgcaaa aaaaaaaaaa aaaaaaaaaa gacagtaaat      660
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230 caaaagccca actttagggt gaagaacttg cacaggaacc gccttgcatg gcccctgctt      780
232 ccttgccctt taatcaaaa acagcgacta tcaaaagcag aaattagaag cctgggccat      840
234 ggcttgtgga ctggaagaaa tgggtatcag gtgtctcctt gcaattcagc agccactgcc      900
236 ctgtcccttg cctcatgtca ctagcatatg actaactctc tgatctactg ttttctcgtg      960
238 tgtccacaga gagcagtgat gcctctctct caaagacttg ttaaagaaaa ataaaagaaa     1020
240 ataagtaagc tgggtgtggt gtcttatgct tgtaatccaa gcactgggga ggtgggggcc     1080

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266	cttccctttt	gtaattaccc	acctctggaa	atagggtttg	tagcctaata	gcctacatgt	1860
268	atacaaggca	atacaagaaa	agagccaaca	ggcaagaccc	cccccccaa	gtcccttccc	1920
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276	taaaatgtca	agttcagcct	agagatgctg	ctcacttggt	agagtatgtg	cttgccctaga	2160
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